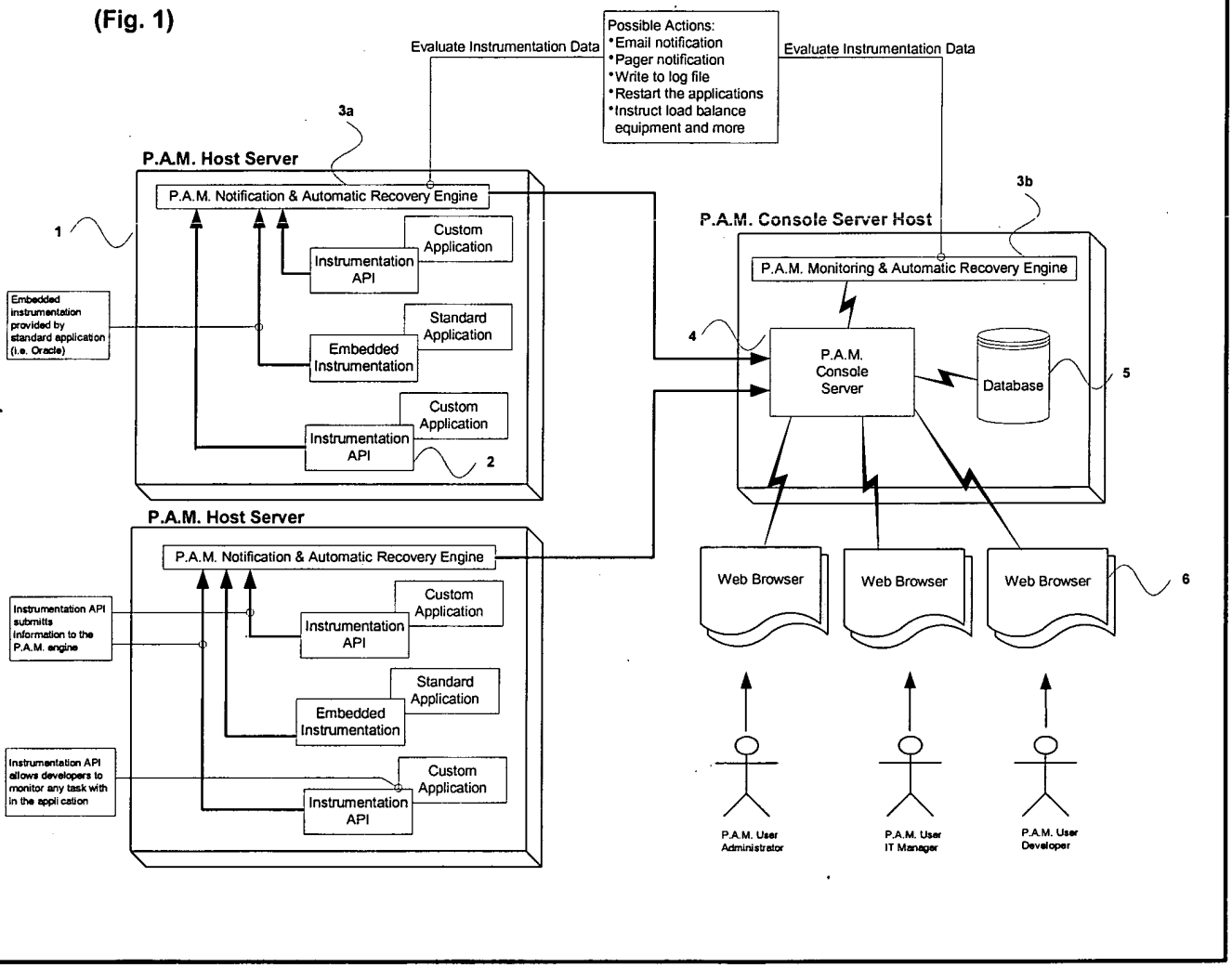
How P.A.M. Works (Fig. 1)



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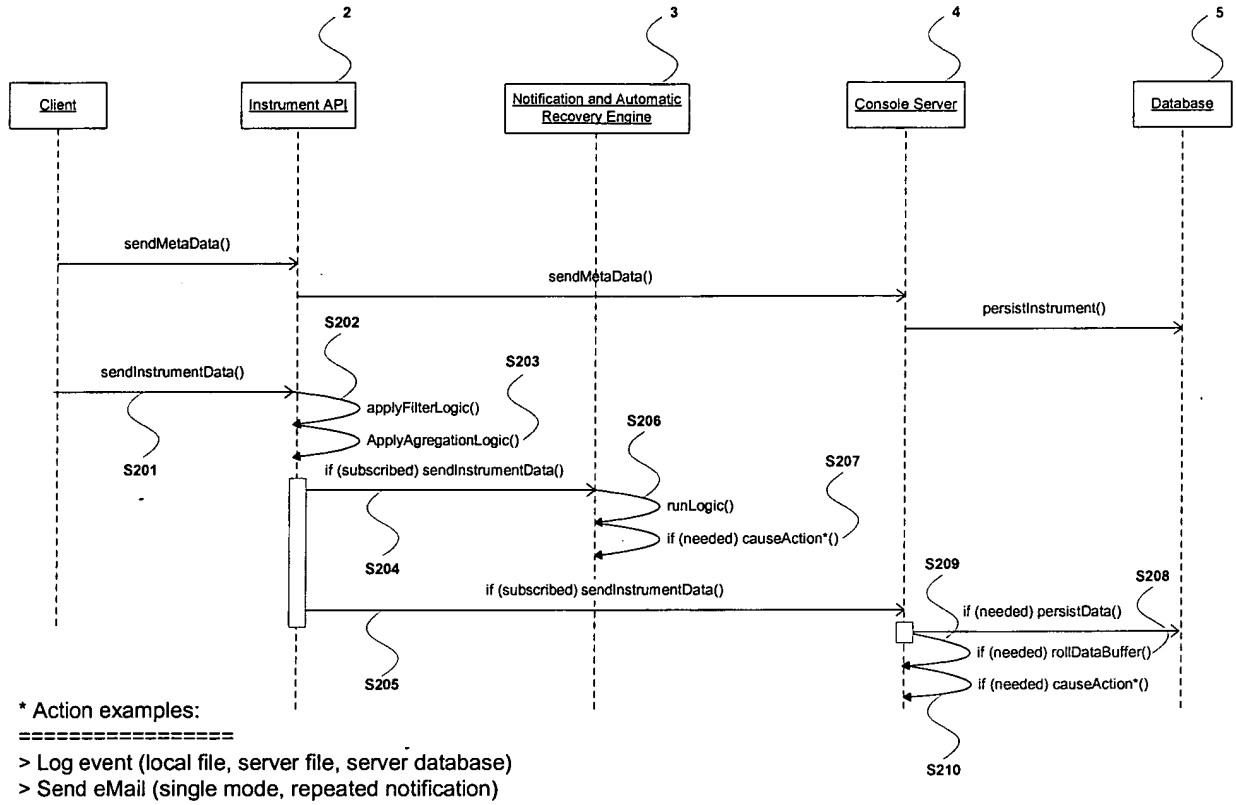
Instrument Data flow - Sequence Diagram (Fig. 2)



* Action examples:

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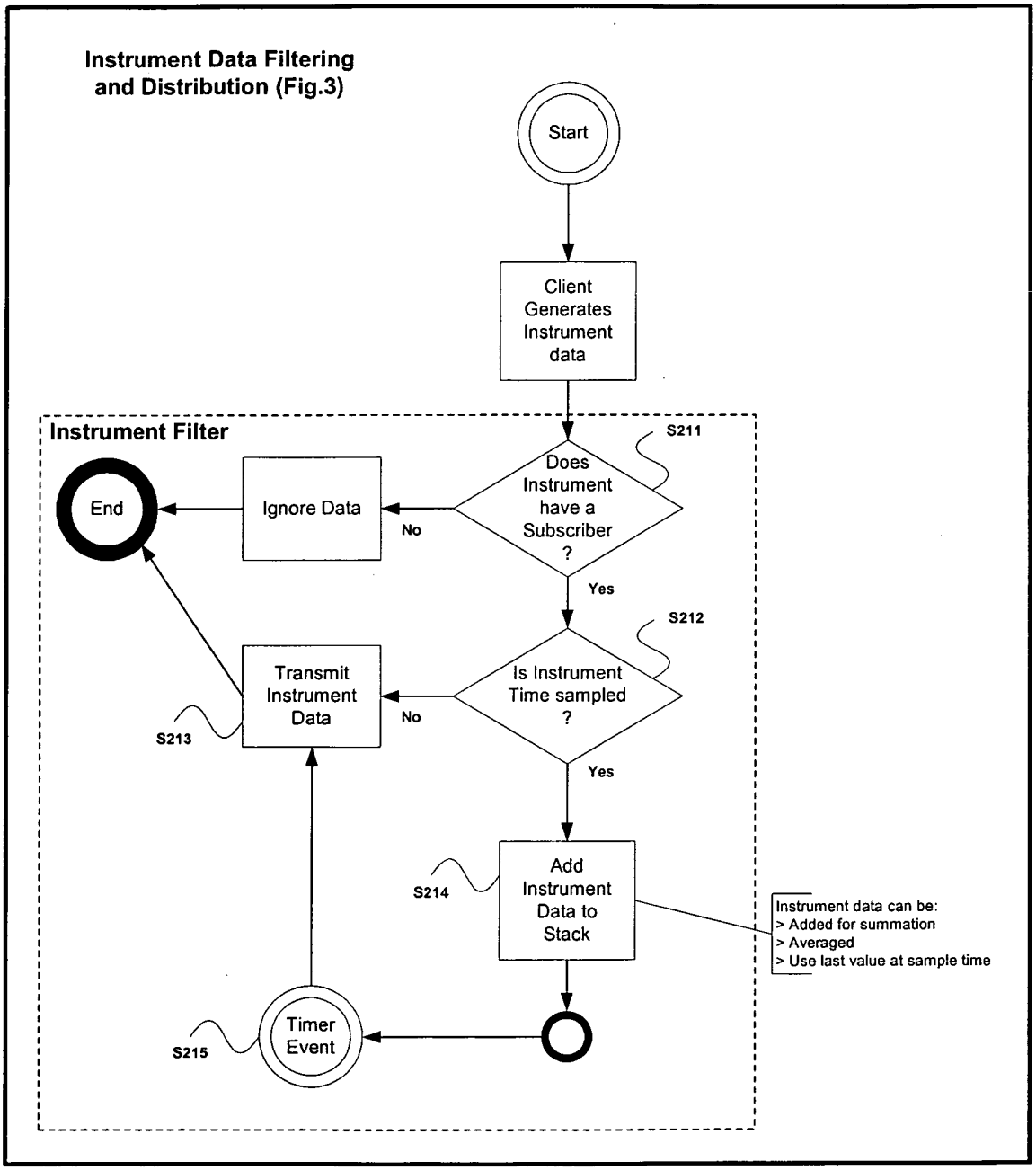
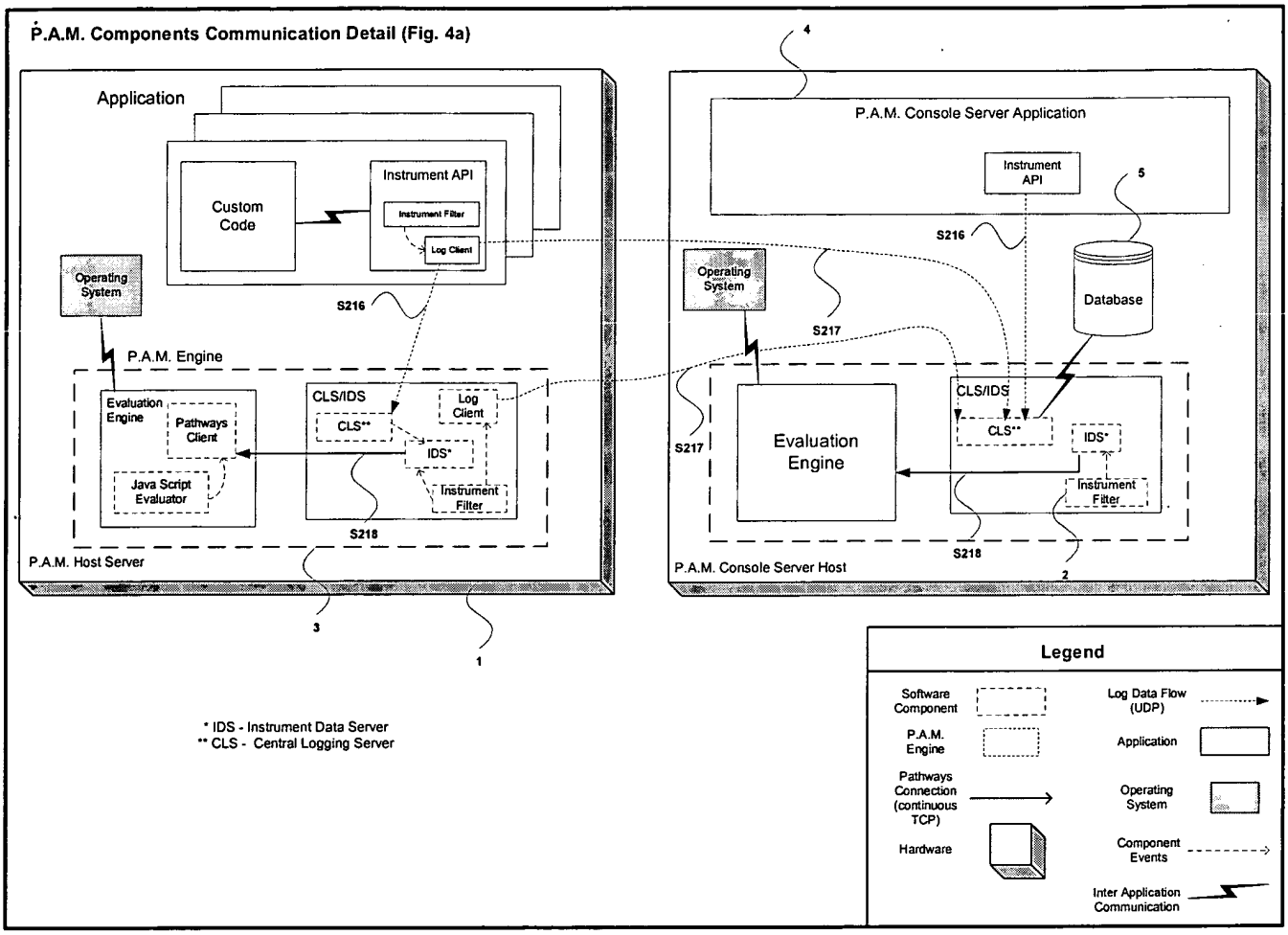
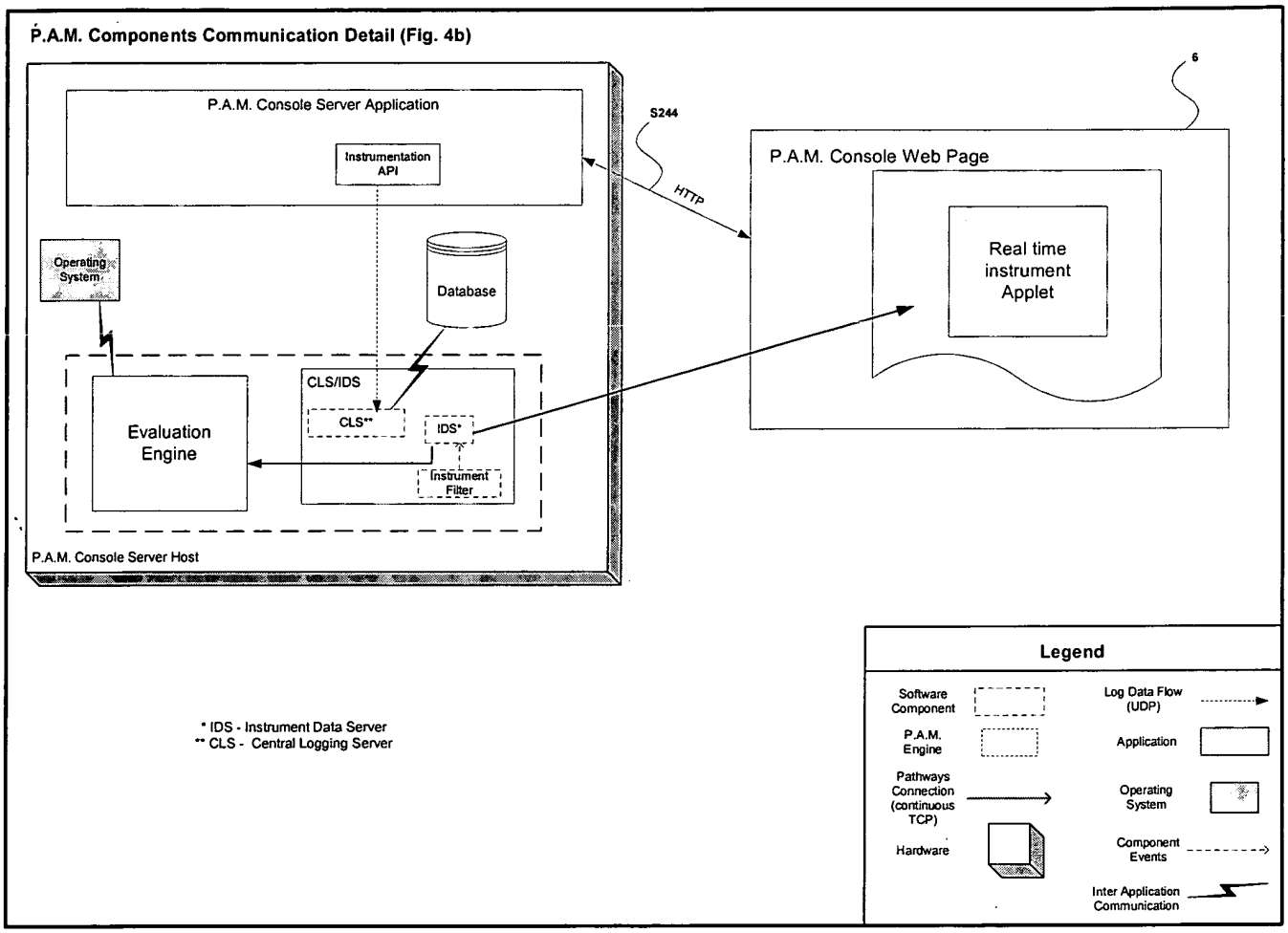
> Log event (local file, server file, server database)
> Send eMail (single mode, repeated notification)
> Send page (single mode, repeated notification)
> RestartApplication
> Interact with load balancing equipment


Instrument Data Filtering and Distribution (Fig.3)
Start
Client Generates Instrument data
Instrument Filter
S211
Does Instrument have a Subscriber ?
No
Ignore Data
End
Yes
S212
Is Instrument Time sampled ?
No
Transmit Instrument Data
S213
Yes
S214
Add Instrument Data to Stack
Instrument data can be:
> Added for summation
> Averaged
> Use last value at sample time
S215
Timer Event


P.A.M. Components Communication Detail (Fig. 4a)
Application
Custom Code
Instrument API
Instrument Filter
Log Client
Operating System
S216
P.A.M. Engine
Evaluation Engine
Pathways Client
Java Script Evaluator
CLS/IDS
Log Client
CLS**
IDS*
Instrument Filter
S218
P.A.M. Host Server
3
1
4
P.A.M. Console Server Application
Instrument API
5
S216
Operating System
S217
Database
S217
Evaluation Engine
CLS/IDS
CLS**
IDS*
Instrument Filter
S218
P.A.M. Console Server Host
2
* IDS - Instrument Data Server
** CLS - Central Logging Server
Legend
Software Component
P.A.M. Engine
Pathways Connection (continuous TCP)
Hardware
Log Data Flow (UDP)
Application
Operating System
Component Events
Inter Application Communication


P.A.M. Components Communication Detail (Fig. 4b)
P.A.M. Console Server Application
Instrumentation API
Operating System
Database
CLS/IDS
CLS**
IDS*
Instrument Filter
Evaluation Engine
P.A.M. Console Server Host
S244
HTTP
6
P.A.M. Console Web Page
Real time instrument Applet
* IDS - Instrument Data Server
** CLS - Central Logging Server
Legend
Software Component
P.A.M. Engine
Pathways Connection (continuous TCP)
Hardware
Log Data Flow (UDP)
Application
Operating System
Component Events
Inter Application Communication

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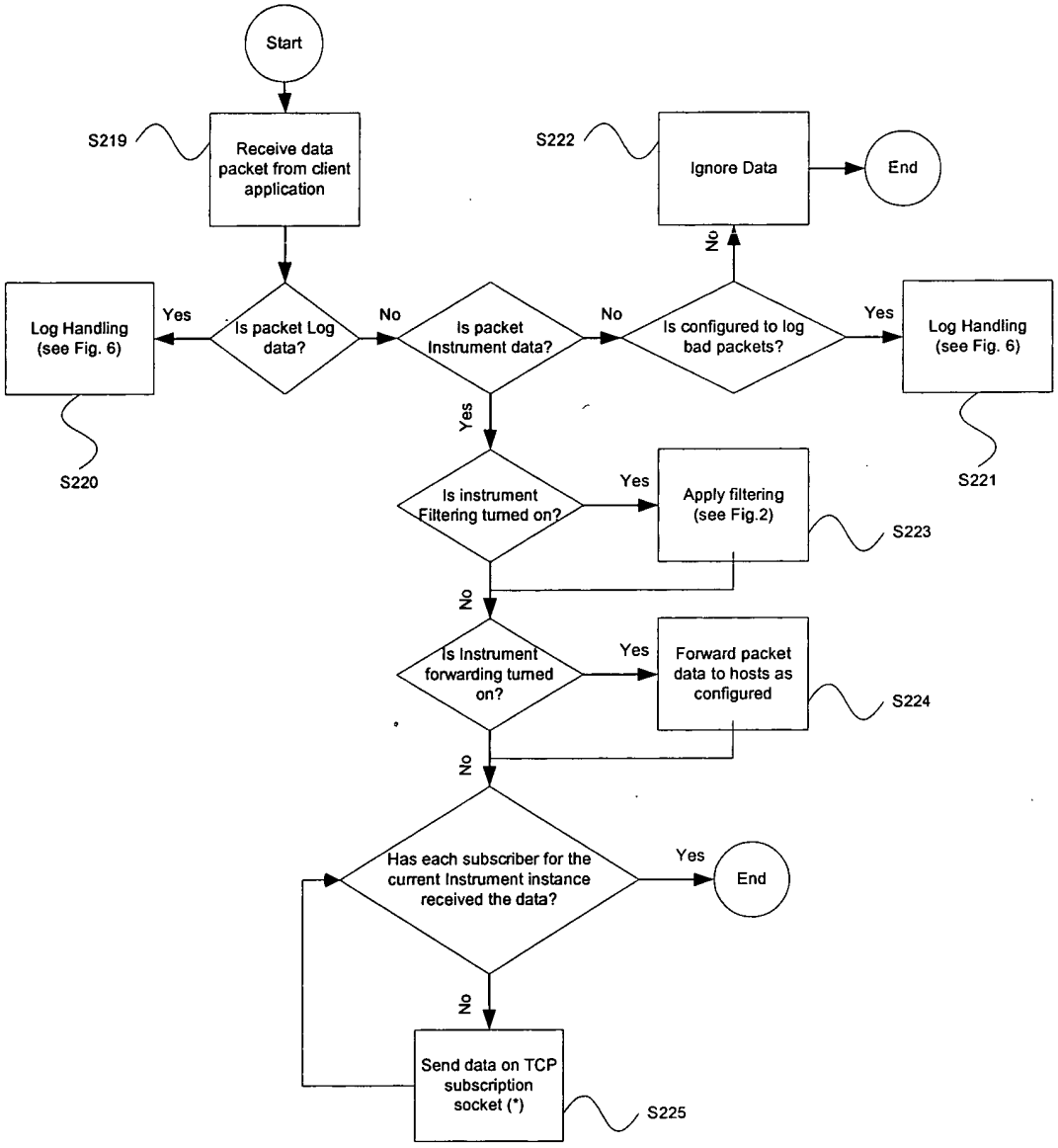
P.A.M. Engine Data Flow: CLS, IDS (Fig. 5)



* Refer to U.S. Patent Application 09/596,763

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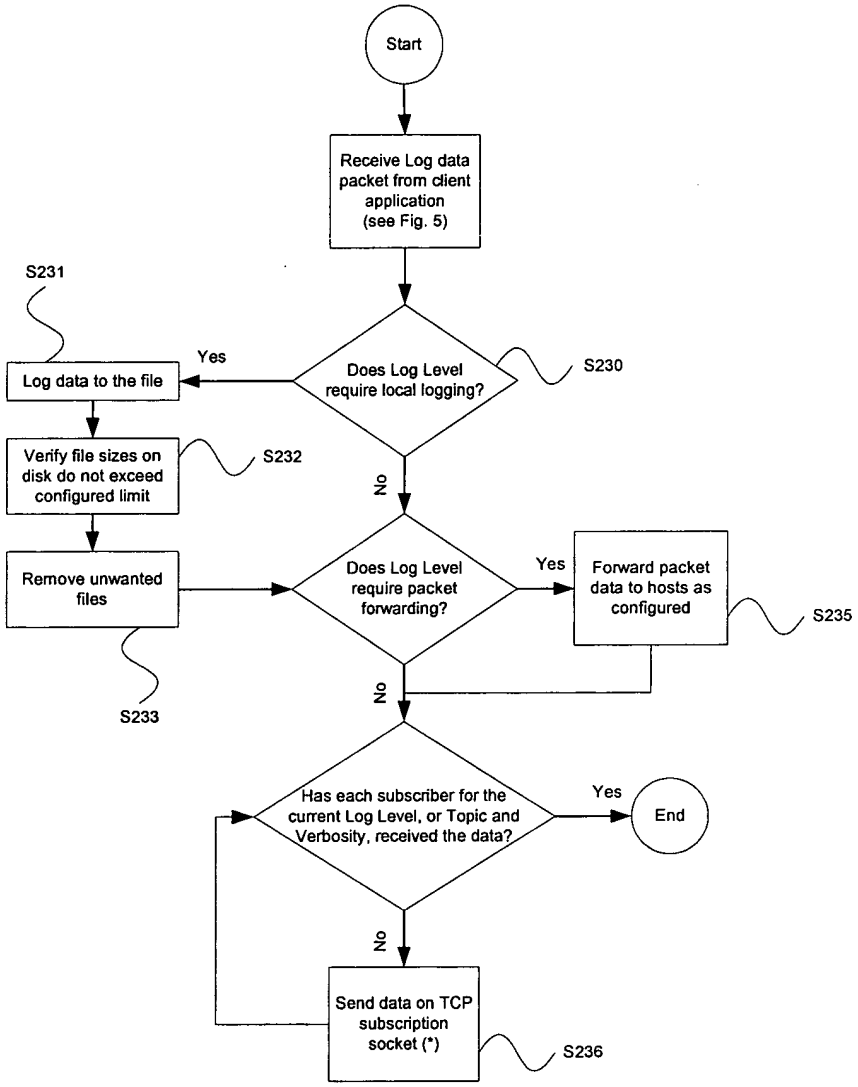
P.A.M. Log Handling (Fig. 6)



* Refer to U.S. Patent Application 09/596,763

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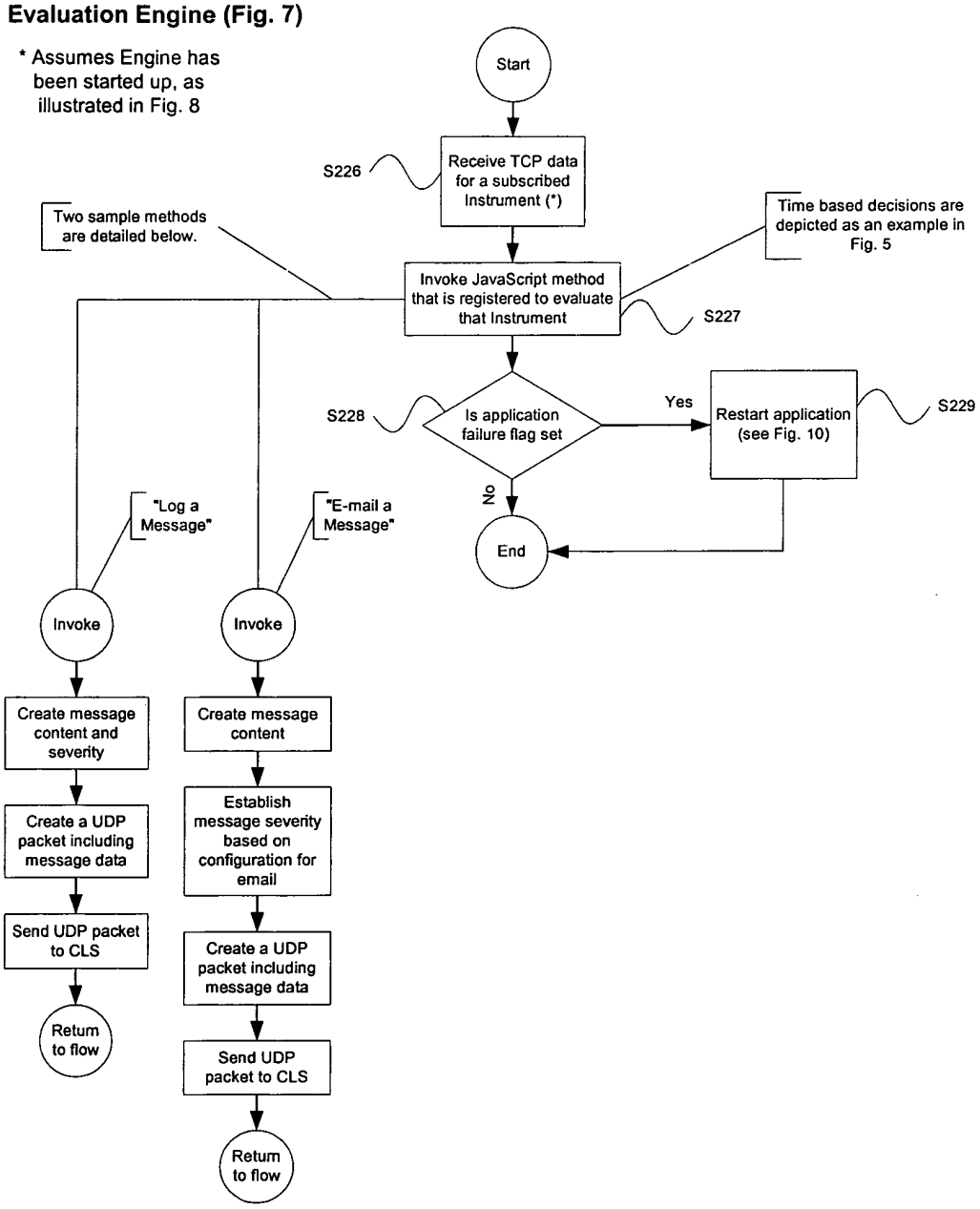
P.A.M. Engine Data Flow: Evaluation Engine (Fig. 7)



* Refer to U.S. Patent Application 09/596,763

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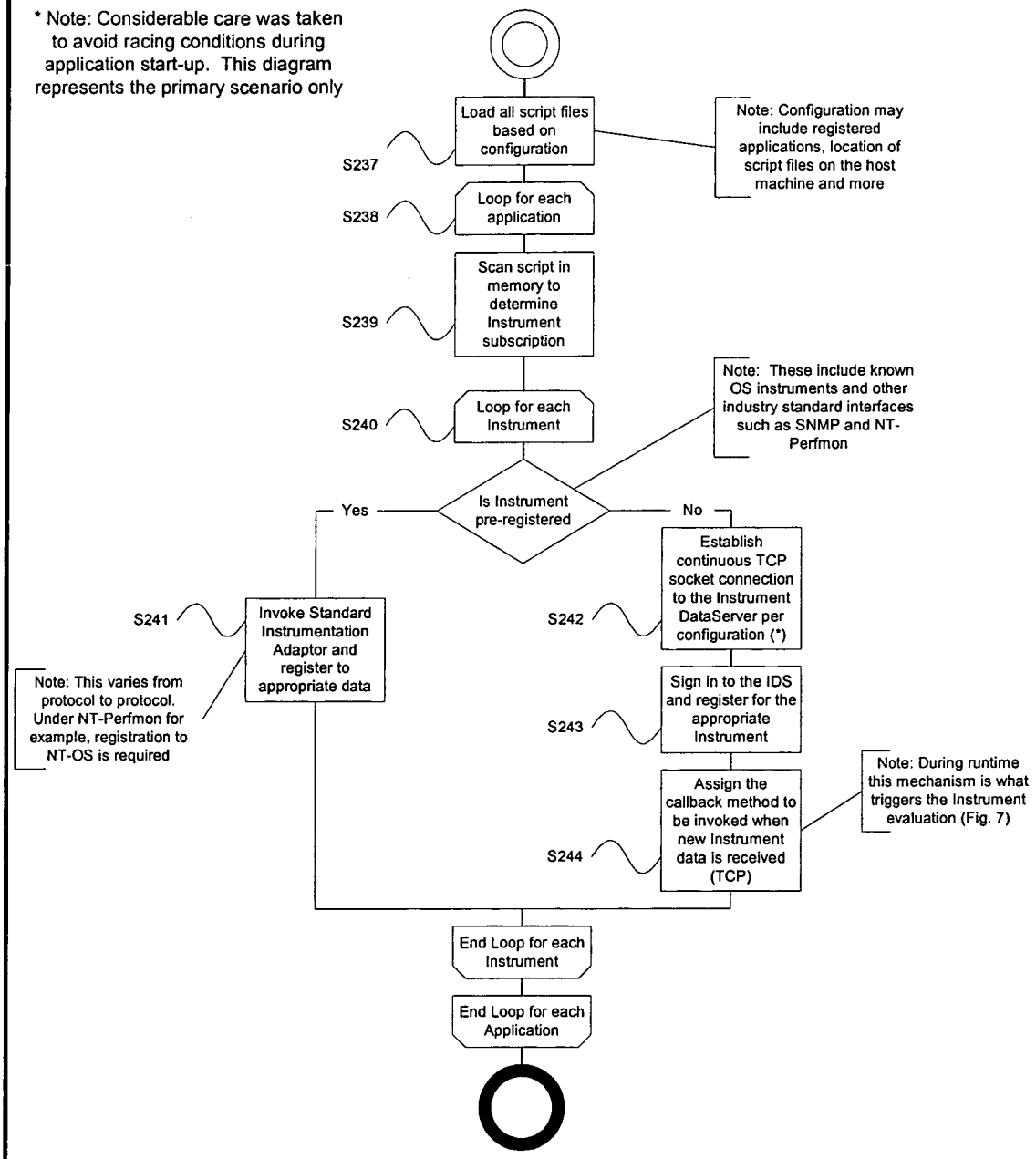
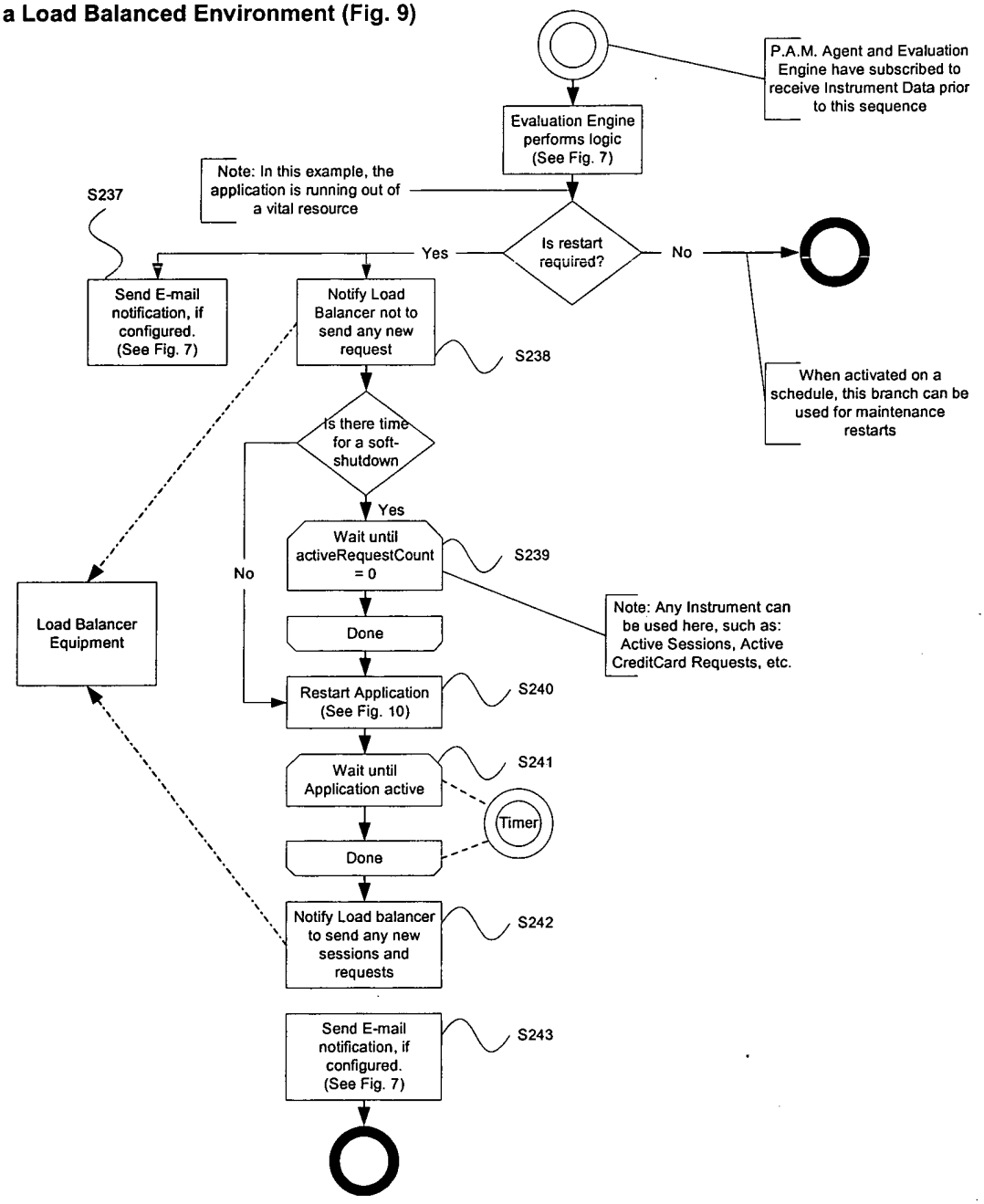
Startup of Evaluation (Fig. 8)

* Note: Considerable care was taken to avoid racing conditions during application start-up. This diagram represents the primary scenario only



* Refer to U.S. Patent Application 09/596,763

Restarting a Web Application in a Load Balanced Environment (Fig. 9)



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Restart Application (Fig. 10)

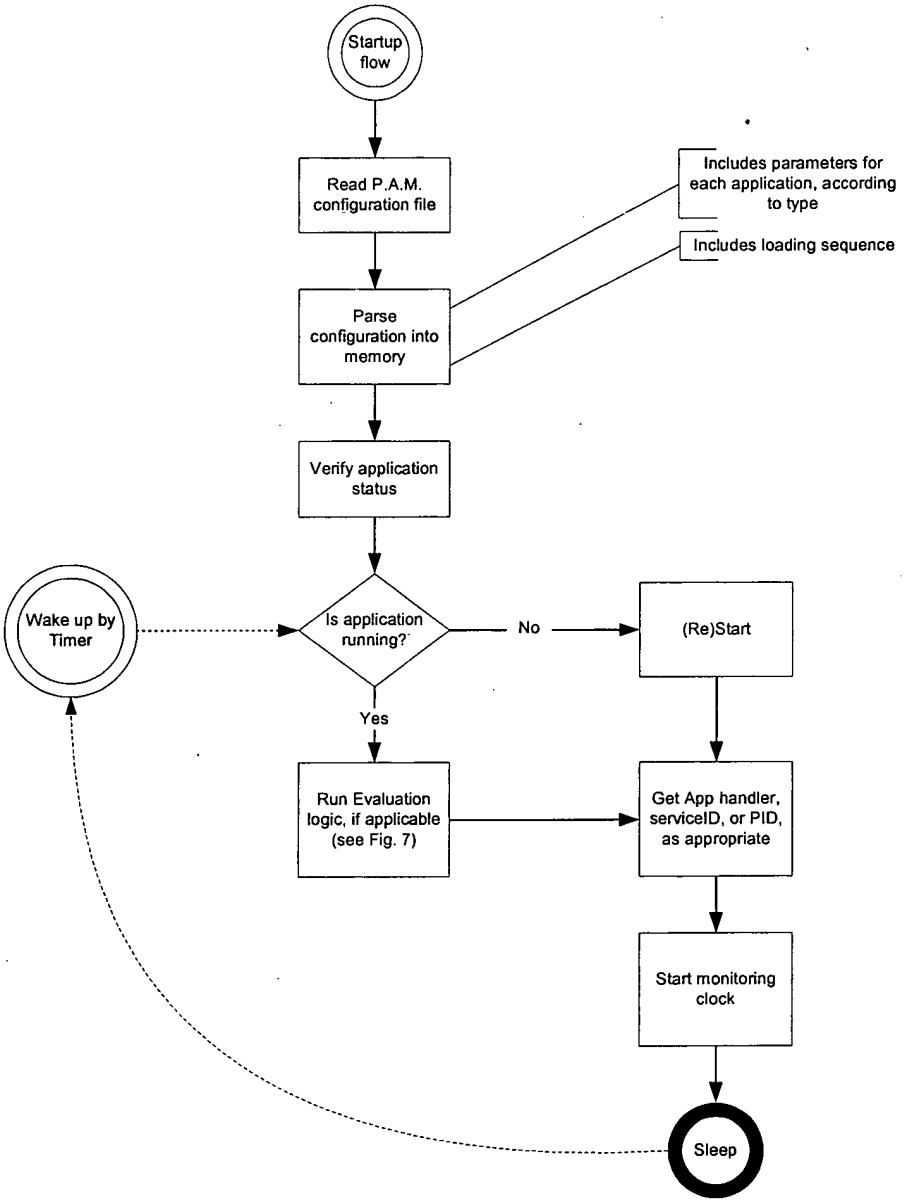

Fig. 11